

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) An apparatus for processing data, said apparatus comprising:

data processing logic configured to perform data processing operations; and

an instruction decoder configured to decode program instructions specifying data processing operations to be performed by said data processing logic and to control said data processing logic to perform said data processing operations; wherein

said instruction decoder is ~~configured~~ operable in a first mode in which program instructions of a first instruction set are decoded and in a second mode in which program instructions of a second instruction set are decoded, a subset of program instructions of said first instruction set having a common bit-length and a common storage order compensated encoding with a subset of program instructions of said second instruction set such that, after compensating for storage order differences, all bits are identical and forming a common subset of instructions representing at least one class of instructions, said common subset of instructions controlling said data processing logic to perform the same data processing operations independent of whether said instruction decoder is operating in said first mode or said second mode.

2. (Previously Presented) The apparatus as claimed in claim 1, wherein said instruction decoder is operable to use common portions of said data processing logic to execute instructions of said common subset of instructions.

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RF 1/15/08